



National Weather Service

Storm Data and Unusual Weather Phenomena



July 1997

July 199									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>MICHIGAN, East</u>									
Midland County Edenville	02	1421EST			0	0	10K		Thunderstorm Wind (G70)
Saginaw County Marion Spgs	02	1431EST			0	0			Hail (0.75)
Saginaw County Brant	02	1440EST			0	0	10K		Thunderstorm Wind (G70)
Saginaw County 2 W Chesaning	02	1441EST	2	60	0	0	400K		Tornado (F1)
Saginaw County 2 SW Chesaning	02	1450EST	0.3	45	0	0	400K		Tornado (F1)
Saginaw County Layton Corners	02	1510EST	2	60	0	0	200K		Tornado (F1)
Bay County 10 SE Bay City	02	1513EST			0	0			Thunderstorm Wind (G60)
Genesee County Montrose	02	1520EST	2	60	0	0			Tornado (F1)
Genesee County 2.5 S Montrose	02	1520EST	1.5	75	0	0			Tornado (F1)
Saginaw County 1 NE Burt	02	1520EST	0.3	45	0	0	50K		Tornado (F1)
Genesee County 1 S Clio	02	1530EST	2	1000	0	0	600K		Tornado (F3)
Livingston County 4 NW Fowlerville to 5 NW Hartland	02	1541EST 1550EST	10	30	0	0	200K		Tornado (F1)
Genesee County 5 E Clio	02 F38OU	1545EST	1.7	1500	1	1	3.8M		Tornado (F3)
Genesee County Otisville	02	1550EST			0	0			Thunderstorm Wind (G50)
Tuscola County Akron	02	1550EST			0	0			Thunderstorm Wind (G60)
Lapeer County 4 NE Columbiaville	02	1615EST	1	1000	0	0	200K		Tornado (F1)
Lapeer County Columbiaville to 5 E Columbiaville	02	1615EST 1630EST			0	0			Thunderstorm Wind (G70)
Livingston County Brighton	02	1625EST			0	0			Hail (0.75)
Oakland County 3 NE Holly	02 F36MH	1632EST	0.3	25	1	0	2M		Tornado (F1)
Washtenaw County Dexter	02	1635EST			0	0			Thunderstorm Wind (G60)
Washtenaw County Whitmore Lake	02	1635EST			0	0	20K		Thunderstorm Wind (G60)
Livingston County Green Oak	02	1636EST			0	0			Thunderstorm Wind (G60)



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<u>MICHIGAN, East</u>								
Oakland County Milford	02	1640EST			0	0		Thunderstorm Wind (G60)
Macomb County Sterling Hgts to Mt Clemens	02	1700EST 1730EST			0	0	1M	Thunderstorm Wind (G70)
Wayne County 4 W Highland Park to Hamtramck	02	1700EST 1710EST	5	2500	0	90	90M	Tornado (F2)
Wayne County Livonia	02	1700EST			0	0	2M	Thunderstorm Wind (G70)
Oakland County Oak Park	02	1705EST			0	0		Thunderstorm Wind (G60)
Oakland County Royal Oak	02	1705EST			0	0		Thunderstorm Wind (G60)
Oakland County Troy	02	1705EST			0	0		Thunderstorm Wind (G60)
Wayne County Dearborn	02	1708EST			0	0		Thunderstorm Wind (G50)
Wayne County Garden City	02	1710EST			0	0		Thunderstorm Wind (G60)
Wayne County Garden City	02	1712EST			0	0		Hail (0.75)
Macomb County 4 SE Romeo	02	1713EST	0.7	100	0	6	30M	Tornado (F0)
Wayne County Westland	02	1713EST			0	0		Hail (1.00)
Wayne County Grosse Pt Farms	02	1725EST 1735EST			5	8	10M	Thunderstorm Wind (G80)
		F42IW, F26IW, M10IW, M11W, F01W						
Wayne County 2 NW Taylor	02	1725EST			0	0		Thunderstorm Wind (G60)
Wayne County Livonia to Detroit	02	1745EST 2045EST			0	0		Flash Flood
Macomb County Sterling Hgts to Mt Clemens	02	1800EST 2100EST			0	0		Flash Flood
MIZ070-076-076	Macomb - Wayne							
	02	2100EST			0	0		Flood
	04	0100EST						
Wayne County Melvindale	02	1729EST			0	0		Hail (1.00)

The combination of a strong cold front and an extremely unstable airmass resulted in 13 tornado touchdowns across southeast Michigan on the 2d; the largest number for a single day since records have been kept. Three tornado-producing supercell thunderstorms developed along the front during mid-afternoon. The northern-most supercell produced 9 tornado touchdowns over southern Saginaw, northern Genesee and northern Lapeer counties, including two F-3's. A woman was killed in Thetford township when she was hit by a falling tree. Another supercell produced F-1 tornadoes in northern Livingston and northern Oakland counties. The tornado in northern Oakland county destroyed a mobile home park near Holly, resulting in one fatality. The southern-most supercell produced an F-2 tornado that passed over densely populated northern Wayne county, including the northern part of the city of Detroit. The result was nearly 100 million dollars in damage in northern Wayne county alone, as the tornado cut a swath of heavy damage from northwest Detroit through Highland Park and Hamtramack. Miraculously, no one was killed in that area, although nearly 100 injuries were reported. Meanwhile, just to the north, an F-0 tornado and strong straight-line winds did about 30 million



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MICHIGAN, East

dollars in Macomb county. Tragically, the greatest loss of life on the 2d occurred in Grosse Pointe Farms, where straight-line winds of nearly 100-mph blew a gazebo full of people into Lake Saint Clair. Five deaths and 8 injuries resulted.

The severe storms also resulted in extensive flash flooding and flooding around the Detroit metro area. Several highways were flooded in northern Wayne and southern Macomb counties late on the 2d. The Middle Rouge River near Garden City went above its 7 foot flood stage at 9 pm EST on the 2d, cresting at 8.6 feet at noon EST on the 3rd. The river fell back below flood stage at 1 am EST on the 4th. The Clinton River at Fraser went above its 16 foot flood stage at 1030 EST on the 2d, cresting at 16.5 feet at midnight EST on the 3rd. The river fell back below flood stage at 3 am EST on the 3rd. The Rouge river at Detroit went above its 15 foot flood stage at 2 am EST on the 3rd, cresting at 16.4 feet at 8 am EST on the 3rd. The river went back below flood stage at 7 pm EST on the 3rd.

Tuscola County									
Vassar	06	1420EST			0	0			Hail (0.88)
Oakland County									
Farmington	06	1600EST			0	0			Thunderstorm Wind (G50)
Tuscola County									
Vassar	06	1600EST			0	0			Hail (0.75)
Sanilac County									
Marlette	06	1800EST 1900EST			0	0			Flash Flood
St. Clair County									
Goodells	06	2008EST			0	0			Hail (1.00)

An unseasonably strong cold front tracked across Michigan on the 6th. The air was not as unstable as was the case on the 2d, however scattered severe thunderstorms developed. Large hail was reported at Vassar and Goodells and strong winds blew powerlines down at Farmington. Heavy downpours resulted in road flooding at Marlette

Washtenaw County									
5 S Salem	08	1815EST			0	0			Hail (0.75)
Wayne County									
Northville	08	1820EST			0	0			Hail (0.75)
Wayne County									
Northville	08	1823EST			0	0			Hail (0.75)
Wayne County									
Livonia	08	1830EST			0	0			Hail (0.75)
Washtenaw County									
5 NE Manchester	08	1842EST			0	0			Thunderstorm Wind (G52)
Oakland County									
Royal Oak Township	08	1844EST			0	0			Hail (0.75)
Macomb County									
Warren	08	1850EST			0	0			Hail (1.00)
Washtenaw County									
Dixboro	08	1905EST			0	0			Hail (1.00)
Wayne County									
Plymouth	08	1910EST			0	0			Hail (0.75)

Low pressure tracked across southern Michigan on the 8th. The resulting thunderstorms produced large hail across parts of the area during the afternoon. Inch diameter hail was reported at Warren and Dixboro.

Midland County									
3 SW Porter	14	1830EST			0	0			Hail (0.75)
Shiawassee County									
Owosso	14	1830EST			0	0			Tstm Wind/Hail



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MICHIGAN, East

Saginaw County Saginaw	14	1843EST			0	0			Thunderstorm Wind (G52)
Saginaw County Bridgeport	14	1845EST			0	0			Thunderstorm Wind (G52)
Wayne County Grosse Pt Woods	14	1849EST			0	0			Hail (0.88)
Wayne County Harper Woods	14	1849EST			0	0			Thunderstorm Wind (G50)
Bay County Auburn	14	1851EST			0	0			Thunderstorm Wind (G50)
Saginaw County Freeland	14	1854EST			0	0			Thunderstorm Wind (G52)
Macomb County East Detroit	14	1856EST			0	0			Thunderstorm Wind (G50)
Bay County 5 SE Bay City	14	1857EST			0	0	1K		Thunderstorm Wind (G60)
Macomb County St Clair Shrs	14	1900EST			0	0			Thunderstorm Wind (G55)
Tuscola County 2 SW Caro	14	1910EST 1915EST			0	0			Thunderstorm Wind (G50)
Tuscola County Vassar	14	1915EST			0	0			Thunderstorm Wind (G55)
Monroe County Newport	14	1920EST			0	0			Hail (1.75)
Monroe County Newport	14	1920EST			0	0			Thunderstorm Wind (G50)
Wayne County Flat Rock	14	1920EST			0	0			Thunderstorm Wind (G50)
Tuscola County 4 SW Mayville	14	1928EST			0	0			Thunderstorm Wind (G50)
Huron County Sebewaing	14	1930EST			0	0			Thunderstorm Wind (G52)
St. Clair County Fargo	14	1942EST			0	0			Hail (0.88)

An approaching cold front combined with a very warm unstable airmass to trigger severe thunderstorms during the afternoon on the 14th. Unlike the event on the 2d, there was very little property damage reported. Strong winds mainly resulted in downed trees and powerlines. Golfball-sized hail was reported at Newport, and nickle-sized hail was reported at Grosse Pointe Woods and at Fargo.

Oakland County Farmington	26	0500EST			0	0	750K		Lightning
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Lightning started a fire that caused 750,000 dollars of damage to a two-story apartment building in Farmington Hills early on the 26th.

MIZ075 Washtenaw	26	0530EST 0730EST			0	0			Flood
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An unannounced release of water from the Barton Dam resulted in the Huron River rising above its 15 foot flood stage at 0530 am EST on the 26th. The river crested at 15.3 feet at 6 am EST on the 26th, and fell back below flood stage at 730 am EST on the 26th.



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MICHIGAN, East

Saginaw County

Frankenmuth

27 2126EST 0 0 50K Thunderstorm Wind (G52)

A violent thunderstorm swept through the town of Frankenmuth during late evening on the 2th. Strong winds demolished a large billboard, throwing some of its pieces over 80 yards. Trees were also downed. Heavy rains produced brief street flooding